

A Brand by



Manaksia Coated Metals
& Industries Limited

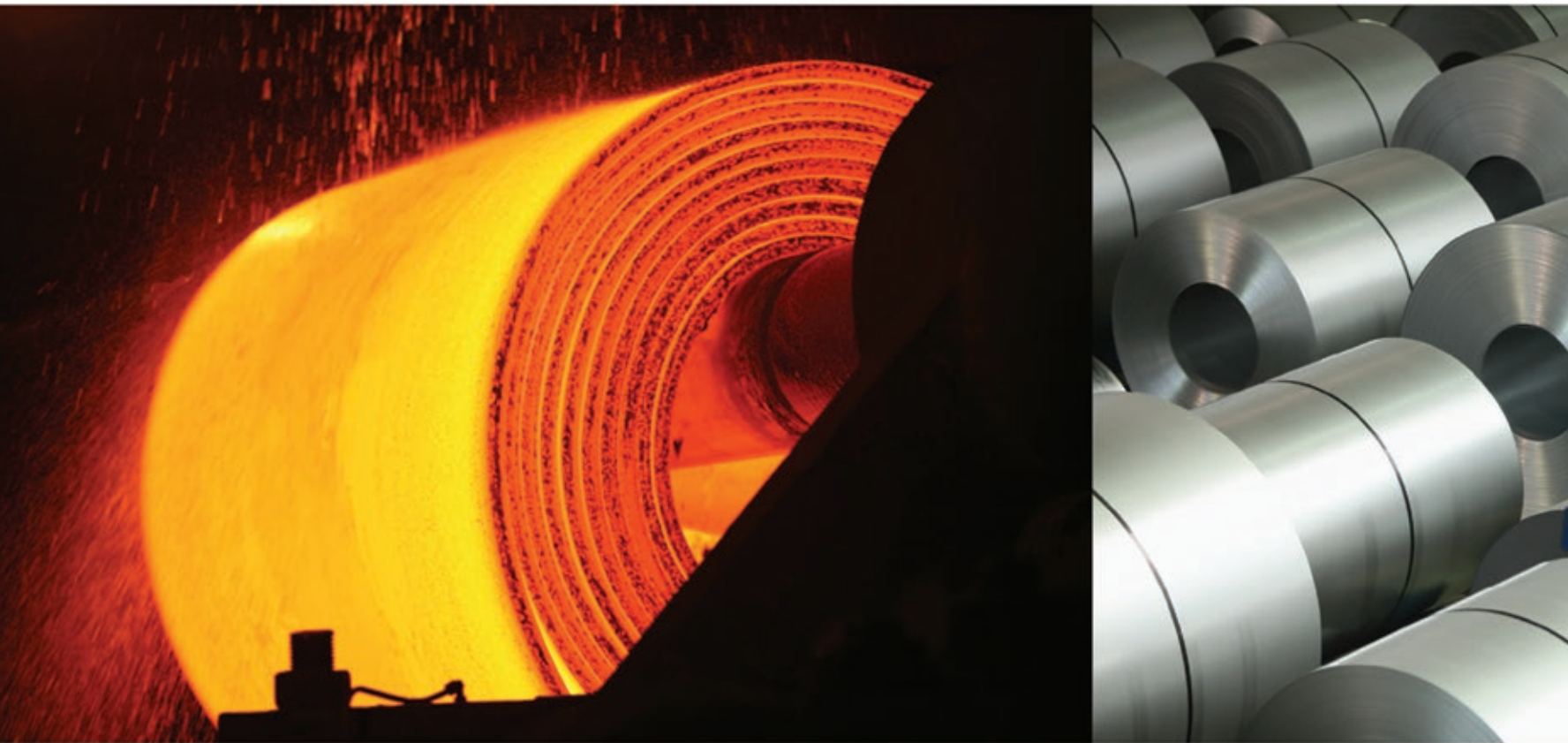


Mazbooti Ka Rang
Humesha Aapke Sung





**मज़बूती का रंग,
हमेशा आपके संग**





Go Long With ColourStrong!

ColourStrong pre-coated sheets are all set to usher in a new visual accent that will personify style and elegance and create a world that's truly colourific!

Be it industrial, commercial or residential application, ColourStrong - a high quality colour coated roofing brand from Manaksia Group is the best solution that you can always rely on.

Introduction

Our pre-painted steel products protect your premises with strength & elegance.

Experience & Expertise

The brand owner of ColourStrong is Manaksia Coated Metals & Industries Limited (MCMIL). It is headquartered in Kolkata is a leading manufacturer and exporter of Galvanized Steel (GI) and Pre-Painted Galvanized Steel (PPGI) Sheets and Coils with operations in India and abroad. We have been exporting our products to Europe, Russia, Africa and the Middle East since the last 10 years.

We are accredited with ISO 9001:2008 certification and consistently adhere to Total Quality Management (TQM) system across our units. Currently, we have an operational production capacity of 72000MT of PPGI coils per annum. Our Colour Coated Plain Sheets / Coils (branded as ColourStrong), Galvanized Sheets / Coils are available in a range of colours, finishes and profiles (Trapezoidal, Tile, Circular Corrugated) with varying thickness of the substrate and coats.

Our Pre-Painted Steel Sheets and Coils are mainly used in Industrial Roofing & Cladding, Insulated Sandwich Panels, Telecom Shelters, False Ceilings and so on.

We are proud to offer customization of substrate options and value added coating options as per customer requirement and excel at providing the best product in terms of durability, functionality and aesthetic appeal as compared to any conventional zinc coated CR sheets.

Our Advanced Paint Technology

MCMIL offers products in a variety of paint systems like

Regular Modified Polyester (RMP), Silicon Modified Polyester (SMP), Super Durable Polyester (SDP), Poly Vinyl Di Fluoride (PVDF)

MCMIL offers ColourStrong with Galvanized Iron or Galvalume as the base substrate metal.

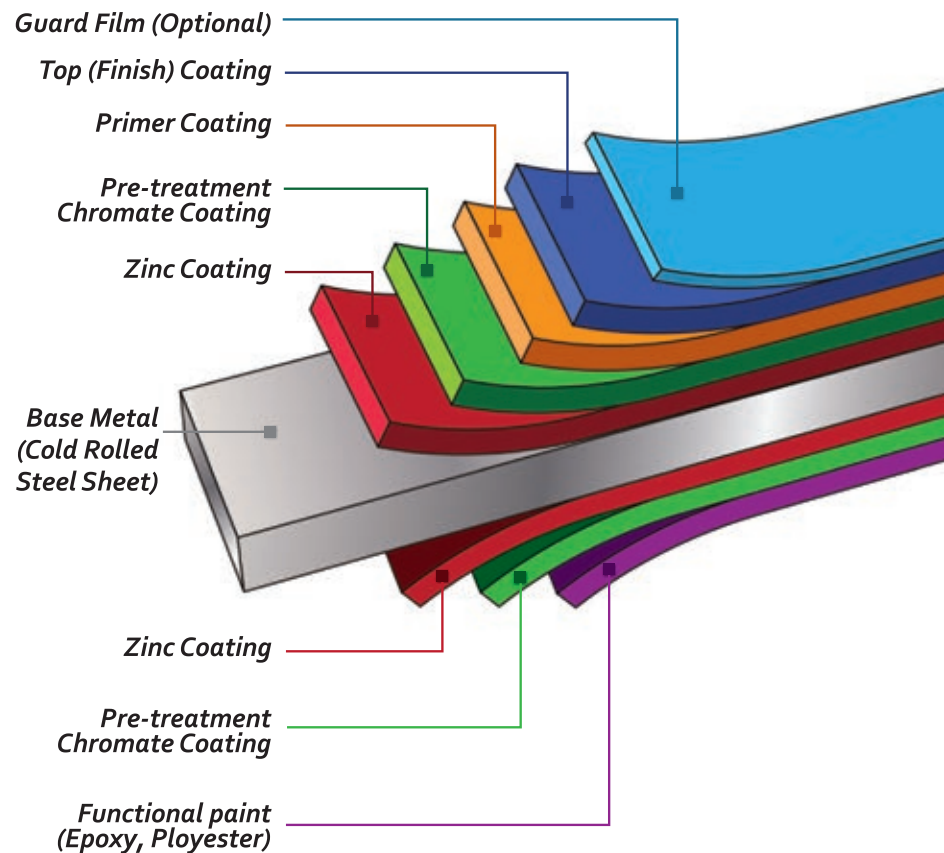
Continuous Colour Coating: Our State-Of-The-Art Technology

Nobody captures design and dynamism in steel like we do! We achieve this with our highly reliable, time-tested "two coat, two bake" process that involves two steps of coating and baking after the sheet has undergone pre-treatment. In addition to this, we use an advanced 'S wrap' coating system to ensure uniform thickness of the coating.

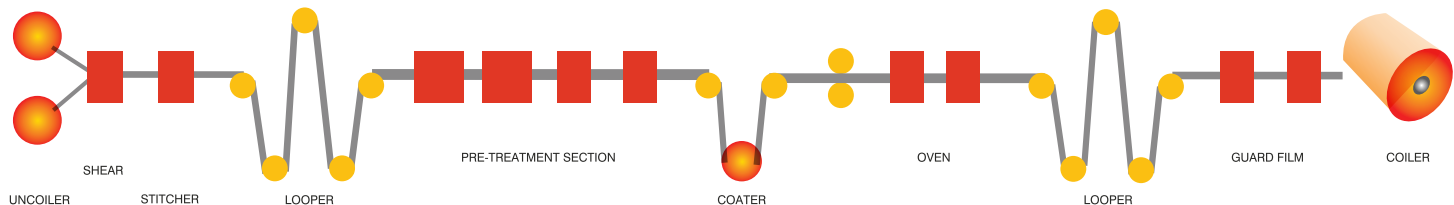
A highly advanced processing and coating technique ensures that the coating adheres firmly to the base metal and refrains from peeling off during roll forming, bending or any other process.

As a result of this coating process, the base metal exhibits higher durability despite extreme weather conditions, uniform coating thickness, extra smooth surfaces, wide spectrum of colours available and value for money; all of this makes our product range truly valuable in comparison to any other conventional product.

Process



MANUFACTURING PROCESS



Salient Features



**FIRE, WIND, HAIL
AND CORROSION
RESISTANT**



**EXCELLENT
THERMAL
EFFICIENCY**



**DURABLE &
MAINTENANCE
FREE**



**AUTHENTICITY
ASSURED**



**EASY TO
INSTALL**



**ENVIRONMENT
FRIENDLY**



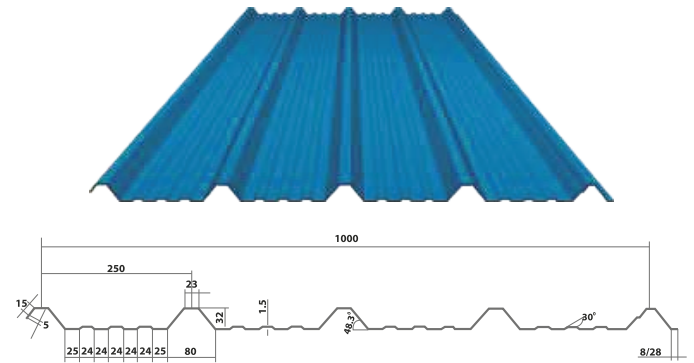
Product Range

ColourStrong Trapezoidal

**Standard tolerances apply*

Material: Pre-painted (Zn/Zn-Al coated) Steel

Colours: As per RAL colour / our standard colour chart

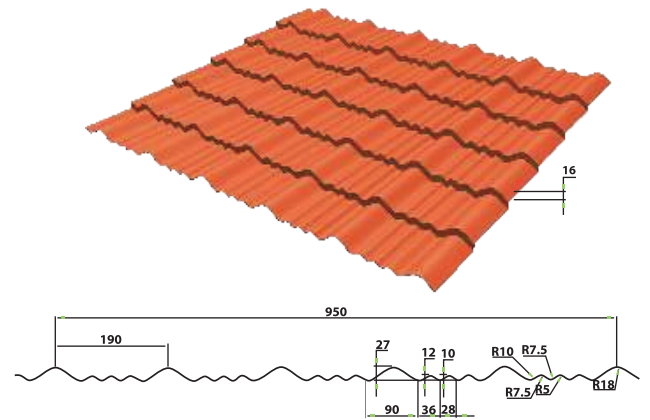


ColourStrong Tile

A unique offering that can tastefully replace the traditional Mangalore tiles with the guarantee of enhanced life (of pre-coated steel), while retaining the aesthetic appeal. A true blend of tradition and technology

Material: Prepainted (Zn/Al-Zn coated) Steel

Colours: As per RAL colour/our standard colour chart

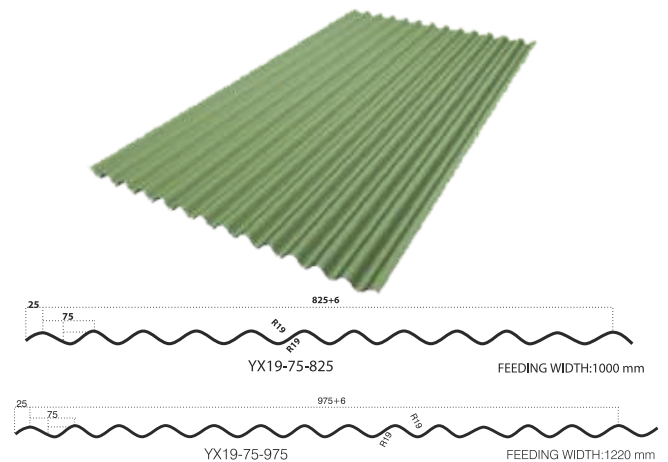


ColourStrong Circular Corrugated

It offers enhanced life and aesthetics over conventional corrugated sheets

Material: Prepainted (Zn/Al-Zn coated) Steel

Colours: As per RAL colour/Our standard colour chart



Quality & Testing

Our products go through stringent quality tests to ensure the highest longevity & consistency in the industry



	PRE PAINTED GALVANISED STEEL	PRE PAINTED GALVALUME
Tensile strength	240 / 350 / 550 MPa	240 / 350 / 550 MPa
Thickness range (TCT)	0.14 - 1.00 mm	0.20 - 0.80 mm
Width (mm)	750 - 1250 mm (Standard - 1220 mm)	900 - 1220 mm
Coil weight (MT)	3 - 8 MT	3 - 8 MT
Coil ID	508 mm	508 mm
Metal Coating	120 GSM or higher as per customer specifications	AZ70 - AZ150 or as per customer specifications
Primer (microns)	Upto 8 microns or as per customer specifications	
Back Coat (microns)	Upto 8 microns or as per customer specifications	
Top Coat (microns)	Upto 25 microns or as per customer specifications	
Profiled Sheets / Cut to Length Sheets	Available in any transportable length, packed in crates of 3 - 5 tons each	
Guard Film (optional)	40 microns or as per customer specifications	

TEST	RESULTS	TEST METHOD
Resistance to Chemical corrosion (5% NaOH & 5% H ₂ SO ₄)	Good	ECCA-T-18
Solvent Rub (MEK)	Min 100 double Rub	AICC-23
Pencil Hardness Test	2H	ECCA-T-4 / IS 14246:1995
Scratch Resistance	1500 gm	IS 101
Impact Test	Min 40" lb	ECCA-T-5 / IS 14246:1995
Erichsen Cupping Test	>6 mm	IS-10175 (82)
Bend Test	2T	ECCA -T-7 / IS 14246:1995
Gloss at 60 degrees	80-85/25-30 (depending on finish)	ECCA-T-4
Adhesion / Cross Hatch Test	100%	ASTM D-3359
Salt Spray Test	Min 750 hrs	ECCA-T-8
Humidity Test	Min 1000 hrs	ECCA-T-9
QUV Weathering Test	Min 1000 hrs	ECCA-T-10
Flatness Test	Upto 18 mm	IS 14246:1995



ColourStrong Trapezoidal

These tests were performed on Zn coated steel of 340 MPa. Test results tabulated are those obtained under standard conditions. The above figures are at a factor of safety of 2.

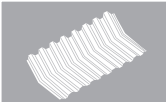
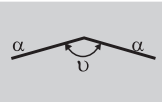

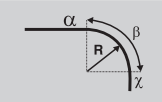

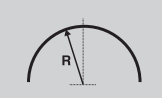
- ① Best balance between coverage and strength (1000 mm covered width, highest Ixx in the category)
- ② High ribbed profile for better support on longer spans
- ③ 32 mm trapezoidal crest for adequate drainage and aesthetic appeal
- ④ Hexagonal trapezoid for best load distribution
- ⑤ Anti-capillary groove to ensure zero leakage as a result of capillary action
- ⑥ Scientific design for usage in high wind load areas
- ⑦ Suitable for roofing/cladding/barricading and other applications

Wind load & Load-bearing capacity

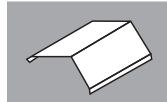
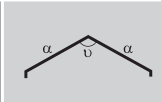
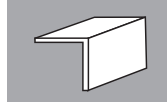
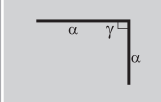
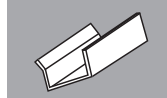
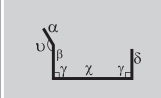
Thickness	Area	Ixx	Ztop	Zbottom	Span for Deflection w/m2=70 kg		UDL (Kg/m) for Span		
(mm)	(mm)	(mm)	(mm)	(mm)	L / 100 (cm)	L / 200 (cm)	1 meter	1.4 meter	2 meter
0.30	337.32	42115.5	1740.59	5405.01	211.03	167.49	314.86	114.74	39.35
0.40	449.75	56156.14	2320.88	7206.95	232.27	184.35	373.08	135.96	46.63
0.45	505.97	63177.11	2611.05	8108.01	241.57	191.73	419.74	152.96	52.46
0.50	562.19	70198.60	2901.24	9009.13	250.21	198.59	466.38	169.96	58.29
0.55	618.41	77220.66	3191.46	9910.33	258.29	205.00	513.02	186.96	64.12
0.60	674.63	84243.36	3481.7	10811.60	265.89	211.04	559.66	203.95	69.95
0.70	787.07	98290.86	4062.27	12614.43	279.92	222.17	652.94	237.95	81.61
0.80	899.51	112341.56	4642.97	14417.66	292.66	232.29	746.24	271.95	93.98
0.90	1011.95	126395.93	5223.82	16221.37	304.39	241.60	839.51	305.94	104.93
1.00	1124.39	140454.41	5804.85	18025.60	315.28	250.24	932.77	339.93	116.59
1.20	1349.26	168585.57	6967.48	21635.89	335.07	265.94	1119.30	407.90	139.91

Accessories

Profiled Accessories(Coated Steel/Aluminum)

		RIDGE
		NORTH LIGHT CURVATURE
		CURVATURE

Plain Accessories(Coated Steel/Aluminum)

		PLAIN RIDGE
		BARGE BOARD
		END EAVE GUTTER

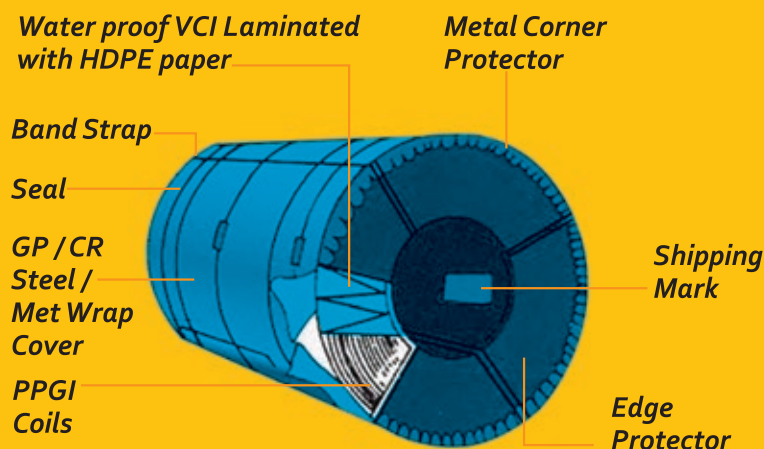
Storage Protocol

Proper storage ensures that the product delivers to its full potential. Follow these simple guidelines for optimum performance. On arrival, ensure the coils/sheets are dry. If wet, open the pack immediately and separate the coils/sheets to allow them to dry.

- ☑ Store packs of the material off the ground in a sheltered position, completely avoiding water accumulation
- ☑ Cover packs with a loose fitting tarpaulin allowing air circulation
- ☑ Use ONLY dry, untreated timber fillets for block stacking
- ☑ Avoid contact with wet concrete
- ☑ Avoid storing the coils/sheets in a place with lot of foot movement

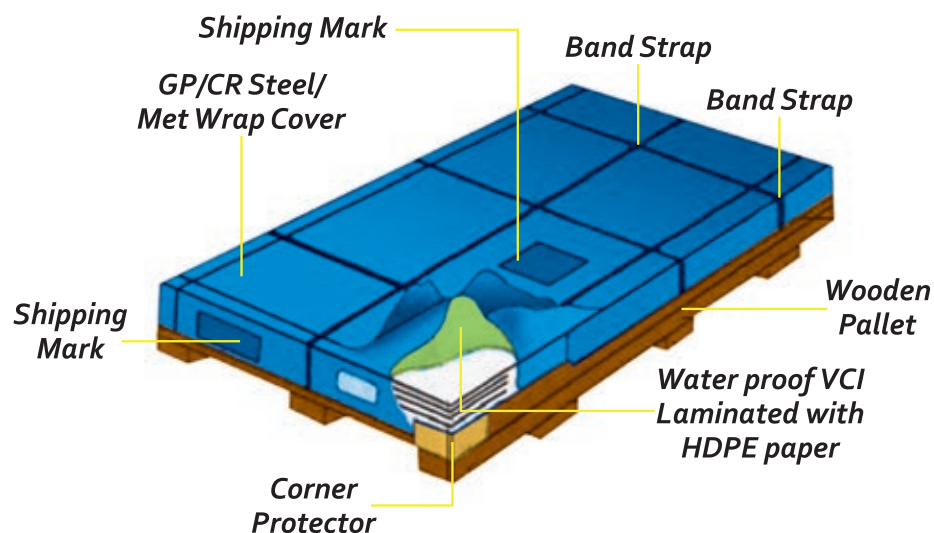
Note: Failure to follow these handling and storage precautions could result in spoiling the surface appearance of the product, thereby severely reducing the product's service life. Damage resulting from such failure invalidates the warranty and is not recoverable from MCMIL.

COIL PACKAGING



We ensure packing of the products to customer's utmost satisfaction with handling, transport and delivery. We also offer customised packing options.

SHEETS PACKAGING



Various Applications

*Pre-painted steel is the future! We supply them in coil & sheet form in our standard profile as per customer requirement. **ColourStrong** sheets could be used to make:*

Airport Hangars | Residential And Industrial Roof Cladding | Barricading | Venetian Blinds
Name/Sign Boards | Hoarding Boards | Ventilation Louvers | Cans & Containers
Consumer Appliances | Metal False Ceiling | Clean Room / Cold Storage
Insulated Sandwich Panels

Besides the obvious advantages of technology, these highly durable pre-coated sheets are available in a vast range of futuristic and attractive colours and finishes. Find your creative self and let your imagination meet our technology. Let your designs look epic, truly reflecting your elegant style, taste and personality.



***If you want your roofs
to last long, just go for***



***Speciality Finishes &
Colour Spectrum***



**SKY BLUE
(RAL - 5012)**



**GREY WHITE
(RAL - 9002)**



**SIGNAL BROWN
(RAL - 8002)**



**LEAF GREEN
(RAL - 6002)**



**BRICK RED
(RAL - 3013)**



**TRAFFIC YELLOW
(RAL - 1023)**



Wood Finish



***PVDF
Metalic Finish***



Wrinkle Finish

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**Manaksia Coated Metals
& Industries Limited**



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